	Application No.	Applicant(s)
Notice of Allowability		
	10/517,944 Examiner	JADAV ET AL.
Notice of Amewasinty	Examiner	Artonit
	Barbara P. Badio, Ph.D.	1617
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to		
2. The allowed claim(s) is/are 32-50.	·	
<ul><li>3.  Acknowledgment is made of a claim for foreign priority un</li><li>a)  All b)  Some* c)  None of the:</li></ul>	der 35 U.S.C. § 119(a)-(d) or (f)	
1.  Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ol>		
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Attachment(s)	E - Notice of lefe and	A Detect A sufficiency
1. Notice of References Cited (PTO-892)	5. Notice of Inform	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summ Paper No./Mail	Date
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Ame	endment/Comment
Paper No./Mail Date <u>3/10/2005</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's State	ement of Reasons for Allowance
of Biological Material	9.	

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The Abstract has been amended as follows: see attached

Authorization for this examiner's amendment was given in a telephone interview with Mr. Mark Skoog on December 14, 2006.

The application has been amended as follows:

Claim 32 has been rewritten as --

- 32. A process for the preparation of S-fluoromethyl  $6\alpha$ ,  $9\alpha$ -difluoro- $11\beta$ -hydroxy- $16\alpha$ -methyl- $17\alpha$ -propionyloxy-3-oxoandrosta-1,4-diene- $17\beta$ -carbothioate, the compound of formula 1, comprising
- (a) treating the compound of formula 3 with alkali metal carbonate-alcohol system to obtain the compound of formula 4;
- (b) reacting the compound of formula 4 with bromofluoromethane to obtain the compound of formula 1,

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In claims 37, 39, 40, 42, 44 and 50, the phrase "between the range of" has been rewritten as -- in the range of --.

Claim 48 has been rewritten as: --

48. The process as claimed in claim 32, wherein the compound of formula 3 is

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prepared by reacting  $6\alpha$ ,  $9\alpha$ -difluoro- $11\beta$ -hydroxy- $16\alpha$ -methyl-3-oxo- $17\alpha$ -(propionyloxy) and rosta-l, 4-dien- $17\beta$ -carboxylic acid, the compound of formula 2, with N,N-dimethylthiocarbamoyl chloride in an inert aprotic solvent in the presence of an iodide catalyst and a base,

## 2. The following is an examiner's statement of reasons for allowance:

The process for the production of S-fluoromethyl  $6\alpha$ ,  $9\alpha$ -difluoro- $11\beta$ -hydroxy- $16\alpha$ -methyl- $17\alpha$ -propionyloxy-3-oxoandrosta-1,4-diene- $17\beta$ -carbothioate, the compound of formula 1 from the compound of formula 4 as defined by the instant invention is known in the art. However, the art does not teach utilizing an alkali metal carbonate-alcohol system to obtain the intermediate compound of formula 4.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Telephone Inquiry

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barbara P. Badio, Ph.D. whose telephone number is 571-272-0609. The examiner can normally be reached on M-F from 6:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Barbara P. Badio, Ph.D

Jarbara Badio

Primary Examiner

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BB December 18, 2006

## **Abstract**

The present invention provides a convenient process for the preparation of S-fluoromethyl 6α,9α-difluoro-11β-hydroxy-16α-methyl-17α-propionyloxy-3-oxoandrosta-1,4-diene-17β-carbothioate, a compound of formula 1, comprising

- (a) treating 17β-[(N,N-dimethylcarbamoyl)thio]carbonyl-6α,9α-difluoro-11β-hydroxy-16α-methyl-17α-propionyloxy-3-oxoandrosta-1,4-diene, a compound of formula 3 with alkali metal carbonate-alcohol system to obtain 6α,9α-difluoro-11β-hydroxy-16α-methyl-17α-propionyloxy-3-oxoandrosta-1,4-diene-17β-carbothioic acid, a compound of formula 4;
- (b) reacting the compound of formula 4 with bromofluoromethane to yield the compound of formula 1.